Kamadgiri Software Solutions (P) LTD.

Python

About the Consultant

Hello !

I am Shubham Mishra

An expert from IT Industry will be the main consultant on this Workshop/In-house Training, he has 5+ years of hands-on experience in software development, automation, managing cloud infrastructure, implementing new tools/technologies and server management (Linux and Windows).

I worked for **Airbus, Ozdingo, Cedcoss** etc and worked with leading organizations like **Paypal, NAB** (National Australian Bank), **Shopify**, **NHAI** and **NPCI** (HDFB, SBI, IDFC, Axis Bank). I am graduated (B-Tech) from MCGV University and is pursuing post Graduation (**M-Tech cloud computing**) from **IIT P a**.

I am here because i love to share knowledge.

Hello!

I am Shubham Mishra

Software Engineer

I am here to teach you Python.

Introduction

- **Python** is a general purpose, **dynamic**, **high level**, and **interpreted** programming language.
- It supports **Object Oriented programming** approach to develop applications.
- It is **simple and easy** to learn and provides lots of **high-level data structures**.
- Python is not intended to work in a particular area, It is a ***multipurpose programming language***.
- We **don't need to use data types to declare variable** because it is ***dynamically typed*** so we can write a=10 to assign an integer value in an integer variable.
- Python makes the **development and debugging *fast*** because there is no compilation step included in Python development, and edit-test-debug cycle is very fast.

Python features

- Easy to Learn and Use
- Expressive Language
- Interpreted Language
- Cross-platform Language
- Free and Open Source
- Object-Oriented Language
- Large Standard Library
- GUI Programming Support
- It can be easily integrated with languages like C, C++, JAVA etc.

History and versions

- The implementation of Python was started in the **December 1989**
- by **Guido Van Rossum** at CWI in Netherland.
- Python programming language is being updated regularly with new features and supports. There are lots of updations in python versions, started from 1994 to current release.
- On December **3, 2008, Python 3.0** was released.

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- **Current Version of Python 3.11.2 April 2023**

Python Applications

- Web Applications
- Desktop GUI Applications
- Scientific and Numeric
- Business Applications
- Console Based Application
- Audio or Video based Applications
- 3D CAD Applications
- Enterprise Applications
- Applications for Images

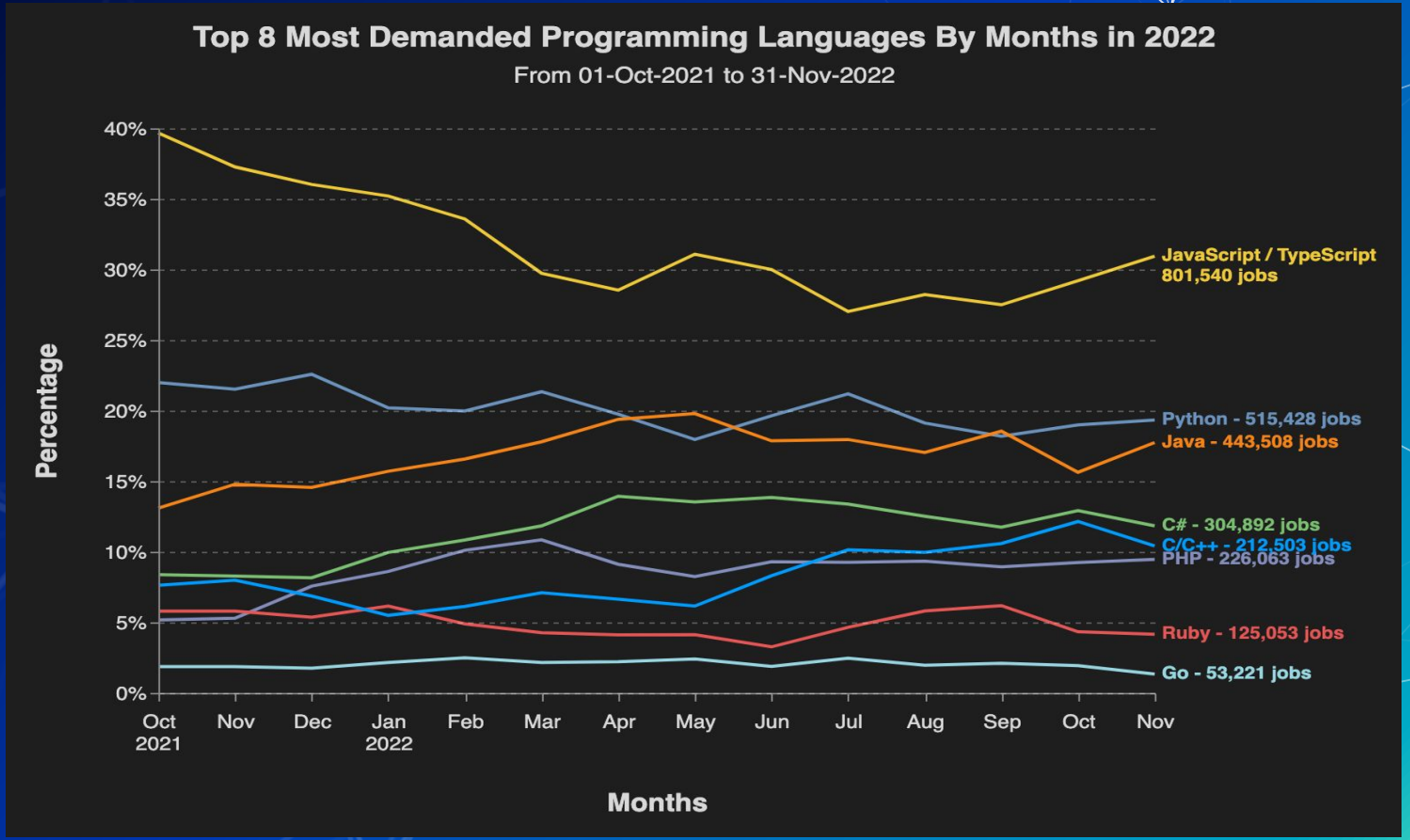
Why Python?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).
- Python has a simple syntax similar to the English language.
- Python has syntax that allows developers to write programs with fewer lines than some other programming languages.
- Python runs on an interpreter system, meaning that code can be executed as soon as it is written.
- Python can be treated in a procedural way, an object-oriented way or a functional way.

Python Syntax compared to other

- Python was designed for **readability**, and has some similarities to the English language with influence from mathematics.
- Python **uses new lines to complete a command**, as opposed to other programming languages which often use semicolons or parentheses.
- Python relies on **indentation**, using whitespace, to define scope; such as the scope of loops, functions and classes. Other programming languages often use curly-brackets for this purpose.

A picture is worth a thousand words



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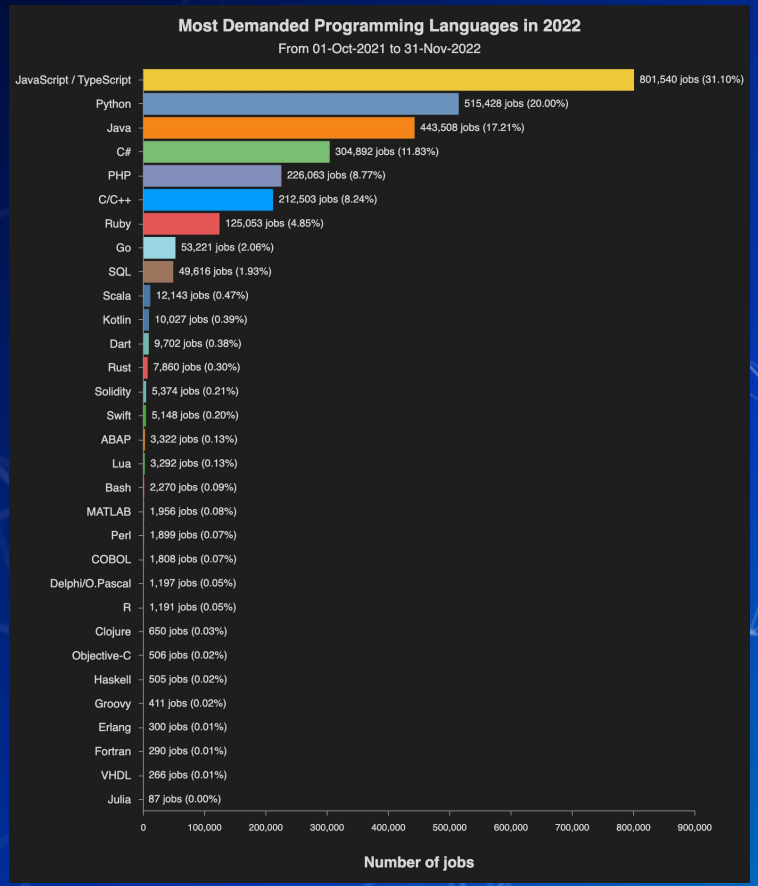
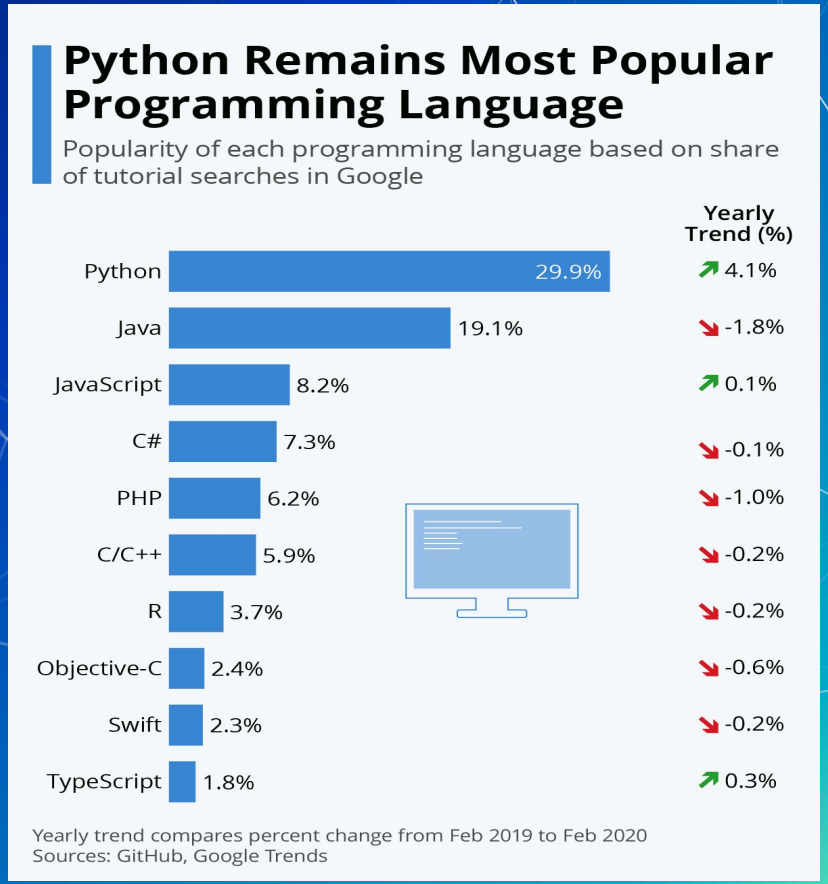
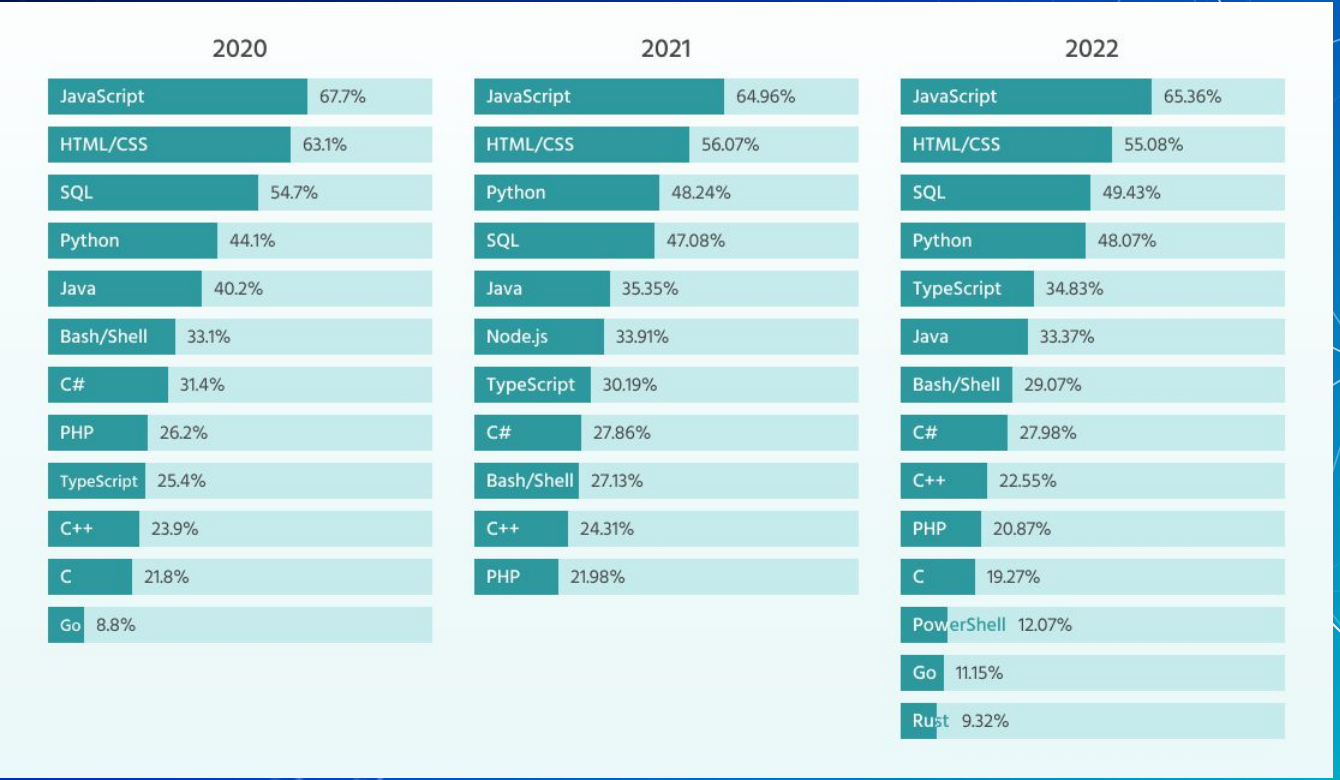




Python in the list of top programming, scripting and markup languages (Based on uses)



First program of python

Thanks!

Any questions?

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